Contents

No. 1 (August 1994)

KELLY, JOHN K. An application of population genetic theory to synonymous gene sequence evolution in the human immunodeficiency virus (HIV) 1

SKJØTH, FLEMMING; LOHI, OUTI *and* THOMAS, ALUN. Genetic models for the inheritance of the silver colour mutation of foxes 11

GILBURN, ANDRÉ S. *and* DAY, THOMAS H. The inheritance of female mating behaviour in the seaweed fly, *Coelopa frigida* 19

BENSON, KATHLEEN F. *and* CHADA, KIRAN. Mini-mouse: phenotypic characterization of a transgenic insertional mutant allelic to pygmy 27

BOGDANOVA, V. S.; ROZOV, S. M.; TRUSOV, Y. A. *and* BERDNIKOV, V. A. Phenotypic effect of substitutions of short chromosomal segments containing different alleles of histone H1 genes in garden pea (*Pisum sativum* L.) 35

COLLENOT, ALAIN; DURAND, DANIELLE; LAUTHIER, MICHEL; DORAZI, ROBERT; LACROIX, JEAN-CLAUDE *and* DOURNON, CHRISTIAN. Spontaneous sex reversal in *Pleurodeles walti* (urodele amphibia): analysis of its inheritance 43

SLATKIN, MONTGOMERY *and* LANDE, RUSSELL. Segregation variance after hybridization of isolated populations 51

KIRKPATRICK, MARK; HILL, WILLIAM G. *and* THOMPSON, ROBIN. Estimating the covariance structure of traits during growth and ageing, illustrated with lactation in dairy cattle 57

SHORT PAPER

SLATKIN, MONTGOMERY. An exact test for neutrality based on the Ewens sampling distribution 71

BOOK REVIEWS 75

The Early Days of Yeast Genetics. *Michael N. Hall and Patrick Linder eds.* J. R. S. FINCHAM

The Cell Cycle. Cold Spring Harbor Symposia on Quantitative Biology. Volume LVI. JIM CREANOR

Regional Physical Mapping: Genome Analysis, volume 5. *K. E. Davies and S. M. Tilghman eds.* WENDY BICKMORE

Genetics of Cellular, Individual, Family and Population Variability. *Charles F. Sing and Craig L. Hanis.* WILLIAM G. HILL

Clonal Forestry Volume I: Genetics and Biotechnology, Clonal Forestry. Volume II: Conservation and Application. *M. R. Ahuja and W. J. Libby eds.* ALLAN JOHN *and* STEPHEN J. LEE

Biodiversity and Wheat Improvement. *A. B. Damiana ed.* GRAHAM RUSSELL

Chromosome Microdissection and Cloning: A Practical Guide. *Nabil G. Habab and Michael V. Viola.* WALTER J. MUIR

Chromosomes: A Synthesis. *Robert P. Wagner, Marjory P. Maguire and Raymond L. Stallings.* WENDY BICKMORE

BOOKS RECEIVED 85

No. 2 (October 1994)

WARREN, WILLIAM D.; ATKINSON, PETER W. *and* O'BROCHTA, DAVID A. The *Hermes* transposable element from the house fly, *Musca domestica*, is a short inverted repeat-type element of the *hobo*, *Ac*, and *Tam3* (*hAT*) element family 87

FESTING, MICHAEL F. W.; YANG, AILI *and* MALKINSON, A. M. At least four genes and sex are associated with susceptibility to urethane-induced pulmonary adenomas in mice 99

HÜBNER, ROLAND; MADDALENA, TIZIANO; SEARLE, JEREMY B. *and* VOGEL, PETER. The HSR on chromosome 1 of the house mouse, *Mus domesticus*: distribution and frequency in Switzerland 107
VAN TIENDEREN, PETER H. *and* KOELEWIJN, HANS P. Selection on reaction norms, genetic correlations and constraints 115
GIMELFARB, A. *and* LANDE, R. Simulation of marker assisted selection for non-additive traits 127
TACHIDA, HIDENORI. Decay of linkage disequilibrium in a finite island model 137
BOOK REVIEWS 145
Nucleases. Second edition. *Edited by Stuart M. Linn, R. Stephen Lloyd and Richard J. Roberts.* DAVID T. F. DRYDEN
Blastogenesis: Normal and Abnormal. *By John M. Opitz.* JONATHAN BARD
Physician to the Gene Pool. *By James V. Neel.* JAMES H. SANG
BOOKS RECEIVED 149

No. 3 (December 1994)

NAGAMINE, CLAUDE M. The testis-determining gene, *SRY*, exists in multiple copies in Old World rodents 151
GORLOV, IVAN P.; ZHELEZOVA, ANTONINA I. *and* GORLOVA, OLGA YU. Sex differences in chiasma distribution along two marked mouse chromosomes: differences in chiasma distribution as a reason for sex differences in recombination frequency 161
DING, DALI *and* LIPSHITZ, HOWARD D. Spatially regulated expression of retrovirus-like transposons during *Drosophila melanogaster* embryogenesis 167
CHARLESWORTH, BRIAN; JARNE, PHILIPPE *and* ASSIMACOPOULOS, STAVROULA. The distribution of transposable elements within and between chromosomes in a population of *Drosophila melanogaster*. III. Element abundances in heterochromatin 183
BARTON, N. H. The reduction in fixation probability caused by substitutions at linked loci 199
ZHAO, JIAN; JIN, SHAOBO *and* HAO, SHUI. The substructural organization of the chromosome core (scaffold) in meiotic chromosomes of *Trilophidia annulata* 209
BOOK REVIEWS 217
Longevity, Senescence and The Genome. *By Caleb E. Finch.* JAMES H. SANG
Embryos—A Color Atlas of Development. *By Jonathan Bard.* MARY BOWNES
Clinical Genetics Handbook 2nd edition. *By Arthur Robinson and Mary G. Lindon.* DAVID FITZPATRICK
How To Write About Biology. *By Jan Pechenik and Bernard Lamb.* JAMES H. SANG
BOOKS RECEIVED 221
INDEX 223